

Title (en)  
Plasmon grating biosensor

Title (de)  
Biosensor zur Plasmonenrasterung

Title (fr)  
Biocapteur de réseau à plasmon

Publication  
**EP 2060904 A1 20090520 (EN)**

Application  
**EP 07301545 A 20071113**

Priority  
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Abstract (en)  
The present invention discloses a novel concept for real-time, high-sensitivity optical biosensing that is suitable for cheap and simple incorporation in existing standard microscopes, and other similar apparatuses. Moreover, the present invention proposes to use surface plasmon polaritons (SPPs) on gold structured surfaces to localize the excitation and/or detection volume in an optical biosensor to a range <500 nm above the substrate surface. According to some embodiments the excitation and detection are performed on the substrate side, and the structure of the metal film is designed such that the excitation and the emission light path travel nearly perpendicular to the metal film.

IPC 8 full level  
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Citation (applicant)  
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Citation (search report)  
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